

## EnFilm™ EFL1K0AF39 evaluation kit

Data brief



### Features

- PMB:
  - Embedded 20 mW NFC contact-less smart charger based on the ST M24LR04E-R dynamic NFC/RFID tag IC
  - Charge control and deep discharge protection of the EFL1K0AF39 using an advanced ST ultra-low current consumption power management IC
  - Additional power input pin for wire plugging of an external charger like an Energy Harvesting source or any other power supply
- LB:
  - Includes an analog ammeter and a digital voltmeter to monitor: The current delivered by the source, the current going through the EFL1K0AF39 battery, the battery voltage
  - Includes a pulsed load emulator with the possibility to adjust the pulsed load cyclic ratio

### Description

The EFL2-EVALKIT is a kit which contains a power management board (PMB) and a load board (LB).

It allows discovering the operation of the EFL1K0AF39 and monitoring the voltage and the dynamic charge / discharge current in real usecase conditions.

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**Table 1: Device summary**

Parameter	Value
Dimensions	62 x 140 mm
Thickness	58 mm

# 1      **References**

For a functional description and guidelines on the use of the EFL2-NFC-PMB, please refer to the following publications:

- User manual UM1806 : EnFilm™ evaluation board kits and design-in board user guide
- Datasheet EFL1K0AF39 : EnFilm™ rechargeable solid state thin film battery

These documents are available at: <http://www.st.com>

## 2 Ordering information

Table 2: Ordering information

Order code	Marking	Weight	Base qty.	Delivery mode
EFL2-EVALKIT	EFL2-EVALKIT	130 g	1	Blister pack

## 3 Revision history

Table 3: Document revision history

Date	Revision	Changes
02-Oct-2017	1	First issue.

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